

## ABSTRACT

The invention concerns an instrumented ball-bearing, comprising a rotating part, a non-rotating part, and an assembly for detecting rotation parameters including an encoder (8)  
5 and a sensor (7) integral with said non-rotating part and provided with a sensor unit (10), and with at least a microcoil having substantially planar winding, arranged in the sensor unit (10) of the non-rotating part such that the microcoil is urged to be axially opposite the encoder (8).